MODELS: Beechcraft 18A, S18A

T.C. NUMBER: 630

I - Model 18A, 8 PCLM (Approved 3/4/37) Engine 2 Wrights R-760E-2 (-48.5) Fuel 80 minimum octane aviation gasoline Engine limits Maximum continuous, 2200 rpm (320 hp) Take-off (one minute), 2400 rpm (350 hp) Propeller limits Maximum permissible, diameter 100 in. With Item 102: Usable ceiling 6700 feet absolute (density altitude) either engine inoperative Level flight or climb - 200 mph True Ind. Airspeed limits Glide or dive - 243 mph True Ind. Flaps extended (60 degrees) - 117 mph True Ind. 6700 lbs. Maximum weight C.G. range (+1.2) to (+19.9) With Item 221: 3800 ft. in. standard air at an indicated airspeed of 90 mph at 7200 lbs. with either engine inoperative and inoperative propeller idling in Usable ceiling positive high pitch of 700 rpm. Level flight or climb - 203 mph True Ind. Glide or dive - 219 mph True Ind. Airspeed limits Flaps extended (60 degrees) - 117 mph True Ind. 7200 lbs. Maximum weight (+2.5) to (+16.5) Center line of the wing beam at the fuselage C.G. range Datum 7 or 8 (See Item 210 for location) No. seats Maximum capacity 110 lbs. Baggage Forward compartment 600 lbs. (-74) (300 lbs. (-84) (with Item 204)) Rear compartment 300 lbs. (+141) Nacelle compartment 100 lbs. each (+27) (with Item 220 only) 158 or 160 gallons (two tanks in wing at 78 or Fuel capacity 80 gallons each (+24))

```
16 gallons (8 gallon tank in each nacelle at 4-1/2 lbs.) (-32) (See Item 205 for optional tanks)
           Oil capacity
                                          Not available
           Control surface
             movement
                                         62 and up except 222
Item 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, and 112
           Serial Nos. eligible
           Required equipment
II - Model S18A, 8 PCSM (Approved 10/13/41)
                                          2 Wrights R-760E-2 (-48.5)
     Engine
                                          80 minimum octane aviation gasoline
     Fuel
                                          Maximum continuous, 2200 rpm (320 hp)
     Engine limits
                                          Take-off (one minute), 2400 rpm (350 hp)
Level flight or climb - 170 mph True Ind.
Glide or dive - 207 mph True Ind.
Flaps extended (60 degrees) - 117 mph True Ind.
     Airspeed limits
                                          Maximum permissible diameter 102 inches
Zero ft. absolute (density altitude either
      Propeller limits
      Usable ceiling
                                             engine inoperative
                                          (+1.2) to (+19.0)
Center line of the wing beam at the fuselage
      C.G. range
      Datum
      Maximum weight
                                          7200 lbs.
                                          7 or 8 (See Item 210)
      No. seats
                                          Maximum capacity 1100 lbs.
      Baggage
                                          Forward compartment 600 lbs. (-74) (300 lbs. with
                                             Item 204)
                                           Rear compartment 300 lbs.
                                                                               (+141)
                                           Nacelle compartments 100 lbs. each (+27) (with
                                             Item 220 only)
                                           1656 or 160 gallons (two tanks in wing at 78 or
      Fuel capacity
                                           80 gallons each (+24))
16 gallons (8 gallon tank in each nacelle at
      Oil capacity
                                             4-1/2 lbs.) (-32) (See Item 205 for optional
                                             tanks)
      Control surface
                                          Not available
        movements
      Serial Nos. eligible
                                          62 and up except 222
Items 101, 104, 106, 107, 108, 109, 110, 111, 112,
115, and 152
      Required equipment
      Specifications Pertinent to All Models
                                          Type Certificate No. 630 (Aero. Bulletin 7A)
      Certification basis
                                           None (See NOTE A)
      Production basis
                                          Eligible for export as follows subject to provisions of MOP 2-4:
      Export eligibility
                                              (a) Canada
                                                     - Landpland and Seaplane - eligible.
                                                     - Skiplane - not eligible. However, structure complies with Canadian require-
                                                       ments for ski installation when Item 213 is installed, with tread of 155 in. and pedestal height of 13 in., and distances from ski bottom to V-Brace attachment,
                                                        with gear in half-deflected position, as
                                                        follows:
                                              Distance 48.5 in., maximum weight 6700 lbs.
37.3 in., maximum weight 7200 lbs.
(b) All other countries except New Zealand.
      EQUIPMENT: A plus (+) or minus (-) sign preceding the weight of an optional item indicates the net weight change between that item and the equivalent
            required item.
      Propellers and Propeller Accessories
112. Propellers - Hamilton Standard
hubs 2B20, blades 6136A-12,
low pitch setting 16 degrees
                                                                                                    (-66)
       Engines and Engine Accessories - Fuel and Oil System
            101. Two engine ring cowls
                                                                                50 lbs.
                                                                                                    (-52)
                                                                                                    (-60)
                    Two oil radiators (Harrison)
                                                                                14 lbs.
            104-
                    Bonding and shielding
                                                                                30 lbs.
                                                                                                     (-46)
            109.
                    Wobble pump
Auxiliary 50 gallon fuel tank in
                                                                                 4 1bs.
                                                                                                     (-23)
            110.
            204.
                     forward baggage compartment
                                                                                32 lbs.
                                                                                                    (-64)
            205-
                    Oil tanks
                     (a) Two 5 gallon (one in each nacelle)
(b) Two 6-1/2 gallon (one in each
                                                                                 9 lbs.
                                                                                                    (-32)
                           nacelle)
                                                                                                     (-32)
            207. Two starters (Eclipse)
217. Mixture analyzer
                                                                                40 lbs.
                                                                                                     (-34)
```

	(a) Cambridge		lbs.	(-39)
Iandina C	(b) Breeze ear and Floats	8	lbs.	(-39)
102.	5 inch wheels (Goodyear 5HBM) and 29x13-5 tires	118	lbs.	(-8)
103.	12x5-3 tail wheel with heavy duty tire (wheel must be placarded for heavy			
151.	duty tire) Edo Model 55-7170 floats with water	7	lbs.	(+261)
	rudders (Drawing No. 55-S-007), auxiliary seaplane fin (Drawing No. S-186221), seaplane center section			
213.	spar (Drawing No. S-18422, Rev. B) Skiplane landing gear (Drawing 18800K	813	lbs.	(+19)
244	or 19000K, 18110 Rev. C; shock struts 7466 or 188400K)	813	lbs.	(+19)
214.	Dual brake installation (Drawing No. 187840)			
221.	5 inch wheels (Goodyear 5 HBM), and 29x13-5 H.D. tires (stencil on landing			
	gear fork must state, "Use Heavy Duty Tires Only") (required for 7200 lbs.			
	maximum weight)	122	lbs.	(-9)
	1 Equipment			
105.	Two landing gear operating motors (Dumore D-5)	18	lbs.	(-12)
106.	Wing flap operating motor (Dumore		11-	
107.	No. 3549) Generator (Eclipse) 25 amp		lbs. lbs.	(-12) (-34)
108.	Battery (Exide 6TS-13-1)	36	lbs.	(+7) or (-
201.	Generators (a) Eclipse 50 amp	32	lbs.	(-34)
200	(b) Eclipse 3171-R	12	lbs.	(-34)
206. 215.	Landing lights (Grimes) Battery (in right and/or left wing	9	lbs.	(+27)
	leading edge near fuselage)			(-18) or (
	(a) Reading 6-ARL-11 (b) Reading 6-ARL-9		lbs. each	
	(c) Exide 6XT-13	64	lbs. each	
	(d) Exide 6-TS-7-1	2,6	lbs. each	
	Equipment	_		1.406
111. 202.	Toilet equipment Flares (type, number and location	,	lbs.	(+106)
2020	must be shown in weight and balance			
208.	report) Two heaters	20	lbs.	(-52) or ((-16)
209.	Pressure fire extinguisher (type,	20	1034	(10)
	number and location must be shown in			
210.	weight and balance report) Seats (type, number and location must			
	be shown in weight and balance			
	report): (a) Standard passenger seat and belt	17	lbs.	
	(b) Couch (3 place) with belts	39	lbs.	
	(c) Couch (4 place) (d) Folding seat (Drawing No. 18342)		actual wei	.ght (+117)
	(e) Extra seat (rear of cabin)		lbs.	(+115)
	With 3-place couch installed standard			
	arrangement of 3 row of 2 seats each at passenger arms of 22, 54, and 86			
	is changed to 15, 41, and 67 for the			
	couch and 2 individual seats at 37 and 71 inches. With 4-place couch			
	installed the passenger arms are 12,			
	32, 52 and 72 for the couch with 2 individual seats at 37 and 71.			
211.	Vacuum pumps			
	(a) Eclipse AP-8 and accessories		lbs.	(-32)
216.	(b) Romec and accessories Toilet equipment		lbs. lbs.	(-32) (+140)
219.	Parachute (back pack 24 ft. will fit			• •
	standard seat)	15	lbs.	
	eous (not listed above) Replacement - "V" Brace Seaplane			
17/-	REDIACEMENT - "Y" MEACE SEADIANE			

cellaneous (not listed above)
152. Replacement - "V" Brace Seaplane
(Drawing No. S-18811)
220. Nacelle baggage compartments:
Seaplane, skiplane or fixed

landing gear only (Drawing No. I-18024)

- NOTE 1. Current weight and balance report including list of equipment included in certificated weight empty, and loading instructions when necessary, must be in each aircraft at the time of original certification and at all times thereafter (except in the case of air carrier operators having an approved weight control system).
- NOTE A. Prior to original certification, each aircraft manufactured subsequent to August 7, 1945, must satisfactorily pass:

 (a) An inspection for workmanship, materials and conformity before covering, metal priming or final finish is applied.

 (b) A final inspection of the completed aircraft.

 (c) A check of the flight characteristics.